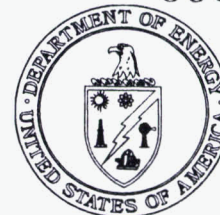




Department of Energy

Ohio Field Office
Fernald Closure Project
175 Tri-County Parkway
Springdale, Ohio 45246

006199



SEP 5 2006

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0194-06

Mr. Thomas Schneider, Project Manager
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**TRANSMITTAL OF THE ADDENDUM TO THE CERTIFICATION REPORT FOR
AREA 4A AND CHANGE PAGES TO THE ADDENDUM TO THE CERTIFICATION
DESIGN LETTER FOR AREA 4A**

- References:
- 1) "Certification Report for Area 4A," Document 20803-RP-0005, dated September 2005
 - 2) Letter DOE-0180-06, J. Reising to J. Saric/T. Schneider, "Addendum to the Certification Design Letter for Area 4A," dated July 27, 2006
 - 3) Letter OEPA, T. Schneider to J. Reising, "Re: Approval - Transmittal of the Addendum to the CDL for Area 4A," dated August 3, 2006
 - 4) Letter USEPA, J. Saric to J. Reising, "Re: Area 4A CDL Addendum," dated August 8, 2006

Excessive rainfall events in the spring caused storm water runoff from non-certified areas to overwhelm and breach the runoff control berms and ditches of Certified Area 4A. Therefore, a recertification/re-sampling effort was necessary to demonstrate that soils in Area 4A had not been impacted by water crossing the certification boundaries from non-certified areas. This addendum to the Certification Report for Area 4A (Reference 1) presents the results of the recertification sampling effort outlined in the Addendum to the Certification Design Letter (CDL) for Area 4A (Reference 2). The addendum to the CDL was approved by the Ohio Environmental Protection Agency on August 3, 2006 and the U.S. Environmental Protection Agency (EPA) on August 8, 2006 (References 3 and 4).

Although the EPA approved the addendum to the CDL, they identified inconsistencies within the addendum. Specifically, it was identified that there were inconsistencies between Attachment 2, Attachment 3, and Figure 2 of Variance 20803-PSP-0003-04, which was attached to the addendum to the CDL. Attachments 2 and 3 incorrectly listed sampling locations 3-7 and 3-10 as locations to be sampled; however, it was determined in the field that these locations were inaccessible. Therefore, locations 3-12 and 4-2 were sampled in place of locations 3-7 and 3-10. Corrected copies of Attachments 2 and 3 are included with this addendum.

Recertification Approach

Figure 1 shows the extent of the storm water overflow into Area 4A and the certification unit (CU) design. Certification units A4A01 and A4A02 were designed to cover the area impacted by storm water overflow.

Certification Unit A4A01 overlaps portions of previously sampled CUs from the eastern side of the original Area 4A certification effort. This CU was re-sampled for the Area 4A radiological area-specific constituents of concern associated with the original CUs (i.e., radium-226, radium-228, thorium-228, thorium-232, total uranium, and technetium-99). The certification sample locations that fall within this CU (Figure 2) match the locations of the previous certification effort.

Certification Unit A4A02 overlaps portions of previously sampled CUs from the northern and central portion of the original Area 4A certification effort. The recertification sample locations that fell within A4A02 match 12 locations from the original certification effort. As discussed in the Addendum to the Certification Design Letter for Area 4A (Reference 2), the U.S. Department of Energy believes that total uranium is the best indicator parameter to reveal any potential recontamination of Area 4A. Therefore, the 12 sampling locations in CU A4A02 (Figure 3) were randomly selected and sampled for total uranium.

Both certification units have been continuously covered with water; therefore, neither of these CUs was real-time scanned.

Recertification Evaluation and Conclusion

The results of this recertification effort were evaluated to determine if the previously certified area had become contaminated. All of the results from the re-sampled locations are below the final remediation level (FRL). A comparison of the original data and re-sampled data is presented in Table 1. The final recertification data and statistical analysis of the data are presented in Table 2. Certification Unit A4A01 passed all of the certification criteria as discussed in Section 2.2.4 of the Certification Report for Area 4A.

There were no above-FRL results detected in CU A4A02. A comparison of the original data and re-sampled data is presented in Table 3. The final recertification data are presented in Table 4. Certification Unit A4A02 passed all of the certification criteria as discussed in Section 2.2.4 of the Certification Report for Area 4A.

Mr. James Saric
Mr. Thomas Schneider

-3-

DOE-0194-06

If you have any questions or require additional information, please contact me at (513) 648-3139.

Sincerely,


Johnny W. Reising
Director

Enclosures

cc w/enclosures:

J. Desormeau, OH/FCP
T. Schneider, OEPA-Dayton (three copies of enclosures)
G. Jablonowski, USEPA-V, SRF-5J
M. Cullerton, Tetra Tech
M. Shupe, HSI GeoTrans
S. Helmer, ODH
AR Coordinator, Fluor Fernald, Inc./MS6

cc w/o enclosures:

J. Chiou, Fluor Fernald, Inc./MS88
F. Johnston, Fluor Fernald, Inc./MS12
C. Murphy, Fluor Fernald, Inc./MS1
T. Terry, Fluor Fernald, Inc./MS1

TABLE 1
COMPARISON OF CERTIFICATION AND RECERTIFICATION DATA FOR CU A4A01

CU	Location	Sample ID	Parameter	Recert Result	Recert Qualifier	Original Result	Original Qualifier	Units	FRL	>FRL
A4A01	A4A-C3-14	A4A-C3-14^R	Radium-226	0.815	J	0.985	-	pCi/g	1.7	No
	A4A-C3-15	A4A-C3-15^R	Radium-226	0.911	J	0.963	-	pCi/g	1.7	No
	A4A-C3-16	A4A-C3-16^R	Radium-226	0.928	J	0.933	-	pCi/g	1.7	No
	A4A-C3-6	A4A-C3-6^R	Radium-226	0.971	J	0.944	-	pCi/g	1.7	No
	A4A-C3-6	A4A-C3-6^R-D	Radium-226	0.813	J	0.895	-	pCi/g	1.7	No
	A4A-C3-8	A4A-C3-8^R	Radium-226	0.91	J	1.01	-	pCi/g	1.7	No
	A4A-C6-14	A4A-C6-14^R	Radium-226	0.808	J	0.913	-	pCi/g	1.7	No
	A4A-C6-15	A4A-C6-15^R	Radium-226	0.821	J	0.867	-	pCi/g	1.7	No
	A4A-C6-16	A4A-C6-16^R	Radium-226	0.888	J	0.942	-	pCi/g	1.7	No
	A4A-C6-2	A4A-C6-2^R	Radium-226	0.848	J	1.02	-	pCi/g	1.7	No
	A4A-C6-4	A4A-C6-4^R	Radium-226	0.55	J	0.922	-	pCi/g	1.7	No
	A4A-C6-5	A4A-C6-5^R	Radium-226	0.879	J	0.879	-	pCi/g	1.7	No
	A4A-C6-6	A4A-C6-6^R	Radium-226	0.863	J	0.881	-	pCi/g	1.7	No
	A4A-C6-8	A4A-C6-8^R	Radium-226	0.766	J	0.923	-	pCi/g	1.7	No
	A4A-C8-14	A4A-C8-14^R	Radium-226	0.866	J	0.836	-	pCi/g	1.7	No
	A4A-C8-15	A4A-C8-15^R	Radium-226	0.615	J	0.775	-	pCi/g	1.7	No
	A4A-C8-16	A4A-C8-16^R	Radium-226	0.872	J	0.871	-	pCi/g	1.7	No
A4A01	A4A-C3-14	A4A-C3-14^R	Radium-228	0.737	-	0.887	J	pCi/g	1.8	No
	A4A-C3-15	A4A-C3-15^R	Radium-228	0.711	-	0.748	J	pCi/g	1.8	No
	A4A-C3-16	A4A-C3-16^R	Radium-228	0.572	-	0.542	J	pCi/g	1.8	No
	A4A-C3-6	A4A-C3-6^R	Radium-228	0.836	-	0.664	J	pCi/g	1.8	No
	A4A-C3-6	A4A-C3-6^R-D	Radium-228	0.736	-	0.819	J	pCi/g	1.8	No
	A4A-C3-8	A4A-C3-8^R	Radium-228	0.761	-	0.688	J	pCi/g	1.8	No
	A4A-C6-14	A4A-C6-14^R	Radium-228	0.731	-	0.682	-	pCi/g	1.8	No
	A4A-C6-15	A4A-C6-15^R	Radium-228	0.855	-	0.639	-	pCi/g	1.8	No
	A4A-C6-16	A4A-C6-16^R	Radium-228	0.858	-	0.884	-	pCi/g	1.8	No
	A4A-C6-2	A4A-C6-2^R	Radium-228	0.764	-	0.89	-	pCi/g	1.8	No
	A4A-C6-4	A4A-C6-4^R	Radium-228	0.393	-	0.744	-	pCi/g	1.8	No
	A4A-C6-5	A4A-C6-5^R	Radium-228	0.74	-	0.699	-	pCi/g	1.8	No
	A4A-C6-6	A4A-C6-6^R	Radium-228	0.602	-	0.632	-	pCi/g	1.8	No
	A4A-C6-8	A4A-C6-8^R	Radium-228	0.689	-	0.647	-	pCi/g	1.8	No
	A4A-C8-14	A4A-C8-14^R	Radium-228	0.653	-	0.735	-	pCi/g	1.8	No
	A4A-C8-15	A4A-C8-15^R	Radium-228	0.675	-	0.805	-	pCi/g	1.8	No
	A4A-C8-16	A4A-C8-16^R	Radium-228	0.651	-	0.769	-	pCi/g	1.8	No
A4A01	A4A-C3-14	A4A-C3-14^R	Technetium-99	1.08	U	0.823	U	pCi/g	30	No
	A4A-C3-15	A4A-C3-15^R	Technetium-99	0.944	U	0.809	U	pCi/g	30	No
	A4A-C3-16	A4A-C3-16^R	Technetium-99	1.09	U	0.806	U	pCi/g	30	No
	A4A-C3-6	A4A-C3-6^R	Technetium-99	1.51	-	0.827	U	pCi/g	30	No
	A4A-C3-6	A4A-C3-6^R-D	Technetium-99	0.871	U	0.826	U	pCi/g	30	No
	A4A-C3-8	A4A-C3-8^R	Technetium-99	1.02	U	0.828	U	pCi/g	30	No
	A4A-C6-14	A4A-C6-14^R	Technetium-99	1.34	U	0.75	U	pCi/g	30	No
	A4A-C6-15	A4A-C6-15^R	Technetium-99	0.831	U	0.752	U	pCi/g	30	No
	A4A-C6-16	A4A-C6-16^R	Technetium-99	0.919	U	0.79	-	pCi/g	30	No
	A4A-C6-2	A4A-C6-2^R	Technetium-99	0.927	U	0.785	U	pCi/g	30	No
	A4A-C6-4	A4A-C6-4^R	Technetium-99	0.926	J	0.769	U	pCi/g	30	No
	A4A-C6-5	A4A-C6-5^R	Technetium-99	1.05	U	0.788	-	pCi/g	30	No
	A4A-C6-6	A4A-C6-6^R	Technetium-99	0.911	U	0.77	U	pCi/g	30	No
	A4A-C6-8	A4A-C6-8^R	Technetium-99	0.835	U	0.756	U	pCi/g	30	No
	A4A-C8-14	A4A-C8-14^R	Technetium-99	0.885	U	0.796	U	pCi/g	30	No
	A4A-C8-15	A4A-C8-15^R	Technetium-99	1.04	U	0.788	U	pCi/g	30	No
	A4A-C8-16	A4A-C8-16^R	Technetium-99	0.89	U	0.916	-	pCi/g	30	No

TABLE 1
COMPARISON OF CERTIFICATION AND RECERTIFICATION DATA FOR CU A4A01

CU	Location	Sample ID	Parameter	Recert Result	Recert Qualifier	Original Result	Original Qualifier	Units	FRL	>FRL
A4A01	A4A-C3-14	A4A-C3-14^R	Thorium-228	0.707	J	0.965	J	pCi/g	1.7	No
	A4A-C3-15	A4A-C3-15^R	Thorium-228	0.691	J	0.747	J	pCi/g	1.7	No
	A4A-C3-16	A4A-C3-16^R	Thorium-228	0.639	J	0.529	J	pCi/g	1.7	No
	A4A-C3-6	A4A-C3-6^R	Thorium-228	0.871	J	0.655	J	pCi/g	1.7	No
	A4A-C3-6	A4A-C3-6^R-D	Thorium-228	0.68	J	0.934	J	pCi/g	1.7	No
	A4A-C3-8	A4A-C3-8^R	Thorium-228	0.717	J	0.691	J	pCi/g	1.7	No
	A4A-C6-14	A4A-C6-14^R	Thorium-228	0.705	J	0.685	-	pCi/g	1.7	No
	A4A-C6-15	A4A-C6-15^R	Thorium-228	0.909	J	0.641	-	pCi/g	1.7	No
	A4A-C6-16	A4A-C6-16^R	Thorium-228	0.864	J	0.913	-	pCi/g	1.7	No
	A4A-C6-2	A4A-C6-2^R	Thorium-228	0.734	J	0.95	-	pCi/g	1.7	No
	A4A-C6-4	A4A-C6-4^R	Thorium-228	0.37	J	0.761	-	pCi/g	1.7	No
	A4A-C6-5	A4A-C6-5^R	Thorium-228	0.719	J	0.678	-	pCi/g	1.7	No
	A4A-C6-6	A4A-C6-6^R	Thorium-228	0.683	J	0.719	-	pCi/g	1.7	No
	A4A-C6-8	A4A-C6-8^R	Thorium-228	0.676	J	0.681	-	pCi/g	1.7	No
	A4A-C8-14	A4A-C8-14^R	Thorium-228	0.698	J	0.76	-	pCi/g	1.7	No
	A4A-C8-15	A4A-C8-15^R	Thorium-228	0.686	J	0.817	-	pCi/g	1.7	No
	A4A-C8-16	A4A-C8-16^R	Thorium-228	0.651	J	0.778	-	pCi/g	1.7	No
A4A01	A4A-C3-14	A4A-C3-14^R	Thorium-232	0.737	-	0.668	-	pCi/g	1.5	No
	A4A-C3-15	A4A-C3-15^R	Thorium-232	0.711	-	0.56	-	pCi/g	1.5	No
	A4A-C3-16	A4A-C3-16^R	Thorium-232	0.572	-	0.741	-	pCi/g	1.5	No
	A4A-C3-6	A4A-C3-6^R	Thorium-232	0.836	-	0.494	-	pCi/g	1.5	No
	A4A-C3-6	A4A-C3-6^R-D	Thorium-232	0.736	-	0.787	-	pCi/g	1.5	No
	A4A-C3-8	A4A-C3-8^R	Thorium-232	0.761	-	3.96	J	pCi/g	1.5	No
	A4A-C6-14	A4A-C6-14^R	Thorium-232	0.731	-	4.39	-	pCi/g	1.5	No
	A4A-C6-15	A4A-C6-15^R	Thorium-232	0.855	-	5.27	-	pCi/g	1.5	No
	A4A-C6-16	A4A-C6-16^R	Thorium-232	0.858	-	3.4	-	pCi/g	1.5	No
	A4A-C6-2	A4A-C6-2^R	Thorium-232	0.764	-	1.98	J	pCi/g	1.5	No
	A4A-C6-4	A4A-C6-4^R	Thorium-232	0.393	-	4.19	-	pCi/g	1.5	No
	A4A-C6-5	A4A-C6-5^R	Thorium-232	0.74	-			pCi/g	1.5	No
	A4A-C6-6	A4A-C6-6^R	Thorium-232	0.602	-	1.62	U	pCi/g	1.5	No
	A4A-C6-8	A4A-C6-8^R	Thorium-232	0.689	-	5.25	-	pCi/g	1.5	No
	A4A-C8-14	A4A-C8-14^R	Thorium-232	0.653	-	3.72	J	pCi/g	1.5	No
	A4A-C8-15	A4A-C8-15^R	Thorium-232	0.675	-	3.3	-	pCi/g	1.5	No
	A4A-C8-16	A4A-C8-16^R	Thorium-232	0.651	-	5.39	-	pCi/g	1.5	No
A4A01	A4A-C3-14	A4A-C3-14^R	Uranium, Total	6.47	-	8.44	J	mg/kg	20	No
	A4A-C3-15	A4A-C3-15^R	Uranium, Total	9.8	-	25.2	J	mg/kg	20	No
	A4A-C3-16	A4A-C3-16^R	Uranium, Total	4.89	-	2.84	J	mg/kg	20	No
	A4A-C3-6	A4A-C3-6^R	Uranium, Total	3.23	J	5.65	J	mg/kg	20	No
	A4A-C3-6	A4A-C3-6^R-D	Uranium, Total	4.67	-	7.62	J	mg/kg	20	No
	A4A-C3-8	A4A-C3-8^R	Uranium, Total	5.52	-	6.04	J	mg/kg	20	No
	A4A-C6-14	A4A-C6-14^R	Uranium, Total	3.3	-	4.69	J	mg/kg	20	No
	A4A-C6-15	A4A-C6-15^R	Uranium, Total	6.02	-	6.52	J	mg/kg	20	No
	A4A-C6-16	A4A-C6-16^R	Uranium, Total	25.7	-	36.4	J	mg/kg	20	No
	A4A-C6-2	A4A-C6-2^R	Uranium, Total	6.74	-	3.11	J	mg/kg	20	No
	A4A-C6-4	A4A-C6-4^R	Uranium, Total	6.68	-	4.85	J	mg/kg	20	No
	A4A-C6-5	A4A-C6-5^R	Uranium, Total	5.58	-	8.56	J	mg/kg	20	No
	A4A-C6-6	A4A-C6-6^R	Uranium, Total	4.89	-	4.46	J	mg/kg	20	No
	A4A-C6-8	A4A-C6-8^R	Uranium, Total	4.64	-	6.9	J	mg/kg	20	No
	A4A-C8-14	A4A-C8-14^R	Uranium, Total	8.39	-	20.1	-	mg/kg	20	No
	A4A-C8-15	A4A-C8-15^R	Uranium, Total	3.91	-	6.44	-	mg/kg	20	No
	A4A-C8-16	A4A-C8-16^R	Uranium, Total	8.36	-	16.8	-	mg/kg	20	No

TABLE 2
CERTIFICATION UNIT A4A01

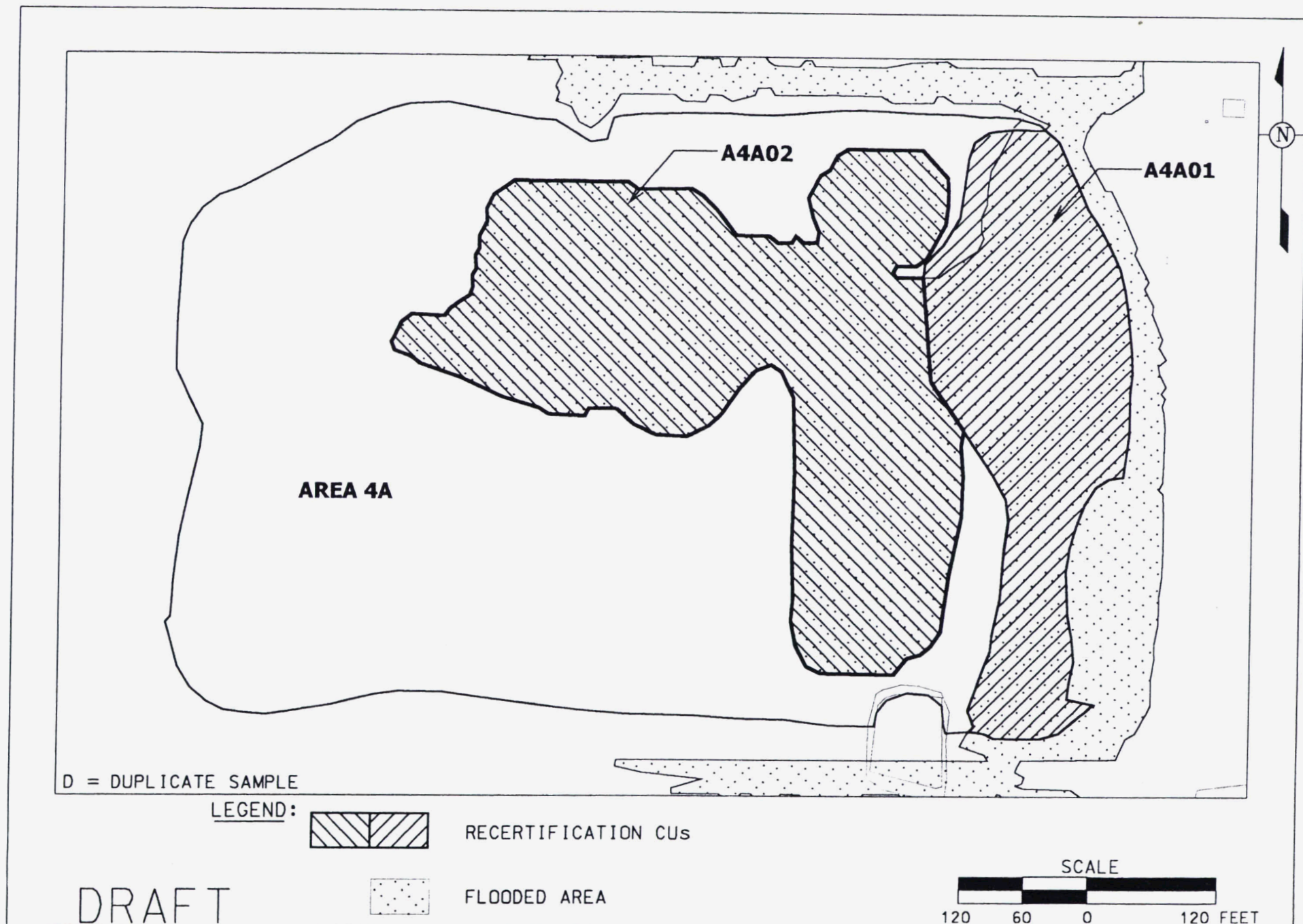
Sample ID	Primary COCs					Secondary COCs
	Radium-226	Radium-228	Thorium-228	Thorium-232	Uranium, Total	Technetium-99
A4A-C3-14	0.815 J	0.737 -	0.707 J	0.737 -	6.47 -	1.08 U
A4A-C3-15	0.911 J	0.711 -	0.691 J	0.711 -	9.8 -	0.944 U
A4A-C3-16	0.928 J	0.572 -	0.639 J	0.572 -	4.89 -	1.09 U
A4A-C3-6	0.971 J	0.836 -	0.871 J	0.836 -	3.23 J	1.51 -
A4A-C3-6-D	0.813 J	0.736 -	0.68 J	0.736 -	4.67 -	0.871 U
A4A-C3-8	0.91 J	0.761 -	0.717 J	0.761 -	5.52 -	1.02 U
A4A-C6-14	0.808 J	0.731 -	0.705 J	0.731 -	3.3 -	1.34 U
A4A-C6-15	0.821 J	0.855 -	0.909 J	0.855 -	6.02 -	0.831 U
A4A-C6-16	0.888 J	0.858 -	0.864 J	0.858 -	25.7 -	0.919 U
A4A-C6-2	0.848 J	0.764 -	0.734 J	0.764 -	6.74 -	0.927 U
A4A-C6-4	0.55 J	0.393 -	0.37 J	0.393 -	6.68 -	0.926 J
A4A-C6-5	0.879 J	0.74 -	0.719 J	0.74 -	5.58 -	1.05 U
A4A-C6-6	0.863 J	0.602 -	0.683 J	0.602 -	4.89 -	0.911 U
A4A-C6-8	0.766 J	0.689 -	0.676 J	0.689 -	4.64 -	0.835 U
A4A-C8-14	0.866 J	0.653 -	0.698 J	0.653 -	8.39 -	0.885 U
A4A-C8-15	0.615 J	0.675 -	0.686 J	0.675 -	3.91 -	1.04 U
A4A-C8-16	0.872 J	0.651 -	0.651 J	0.651 -	8.36 -	0.89 U
Limit	1.7	1.8	1.7	1.5	20	30
Units	pCi/g	pCi/g	pCi/g	pCi/g	ug/g	pCi/g
Conf. Level	95%	95%	95%	95%	95%	90%
Max. Result	0.971	0.858	0.909	0.858	25.7	1.51
Max. >= Limit	No	No	No	No	Yes	No
W-statistic Prob. #	--	--	--	--	2.6% (LN)	--
Test Procedure	--	--	--	--	Median (Sign)	--
Sample Size	16	16	16	16	17	16
Nondetects	0	0	0	0	0	15
% Nondetects	0%	0%	0%	0%	0%	94%
Est. Mean*	--	--	--	--	5.58	--
UCL	--	--	--	--	6.74	--
Prob. > Limit	--	--	--	--	--	--
Pass / Fail	--	--	--	--	Pass	--
<i>a posteriori Sample</i>	--	--	--	--	6	--
Size calculation	--	--	--	--	Pass	--

TABLE 3
COMPARISON OF CERTIFICATION AND RECERTIFICATION DATA FOR CU A4A02

CU	Location	Sample ID	Parameter	Recert Result	Recert Qualifier	Original Result	Original Qualifier
A4A02	A4A-C2-14	A4A-C2-14^R	Uranium, Total	1.03	J	6.06	J
	A4A-C2-15	A4A-C2-15^R	Uranium, Total	16.2	-	6.01	J
	A4A-C3-12	A4A-C3-12^R	Uranium, Total	1.51	J	3.28	J
	A4A-C6-3	A4A-C6-3^R	Uranium, Total	1.54	J	7.35	J
	A4A-C6-9	A4A-C6-9^R	Uranium, Total	1.23	J	3.57	J
	A4A-C8-10	A4A-C8-10^R	Uranium, Total	1.39	J	5.67	-
	A4A-C8-6	A4A-C8-6^R	Uranium, Total	1.85	J	2.38	U
	A4A-C4-2	A4A-C4-2^R	Uranium, Total	2.59	-	18.3	-
	A4A-C4-6	A4A-C4-6^R	Uranium, Total	4.63	-	3.28	J
	A4A-C5-16	A4A-C5-16^R	Uranium, Total	1.13	J	14.2	-
	A4A-C5-3	A4A-C5-3^R	Uranium, Total	1.02	J	2.54	UJ
	A4A-C5-3	A4A-C5-3^R-D	Uranium, Total	0.895	J	2.57	UJ
	A4A-C5-5	A4A-C5-5^R	Uranium, Total	0.971	J	2.57	UJ

TABLE 4
CERTIFICATION UNIT A4A02

	Primary COCs
Sample ID	Uranium, Total
A4A-C2-14	1.03 J
A4A-C2-15	16.2 -
A4A-C4-2	2.59 -
A4A-C4-6	4.63 -
A4A-C5-3	1.02 J
A4A-C5-3-D	0.895 J
A4A-C5-5	0.971 J
A4A-C5-16	1.13 J
A4A-C6-3	1.54 J
A4A-C6-9	1.23 J
A4A-C8-6	1.85 J
A4A-C8-10	1.39 J
A4A-C3-12	1.51 J
Limit	20
Units	ug/g
Conf. Level	95%
Max. Result	16.2
Max. >= Limit	No
W-statistic Prob. #	--
Test Procedure	--
Sample Size	12
Nondetects	0
% Nondetects	0%
Est. Mean*	--
UCL	--
Prob. > Limit	--
Pass / Fail	--
<i>a posteriori</i> Sample	--
Size calculation	--

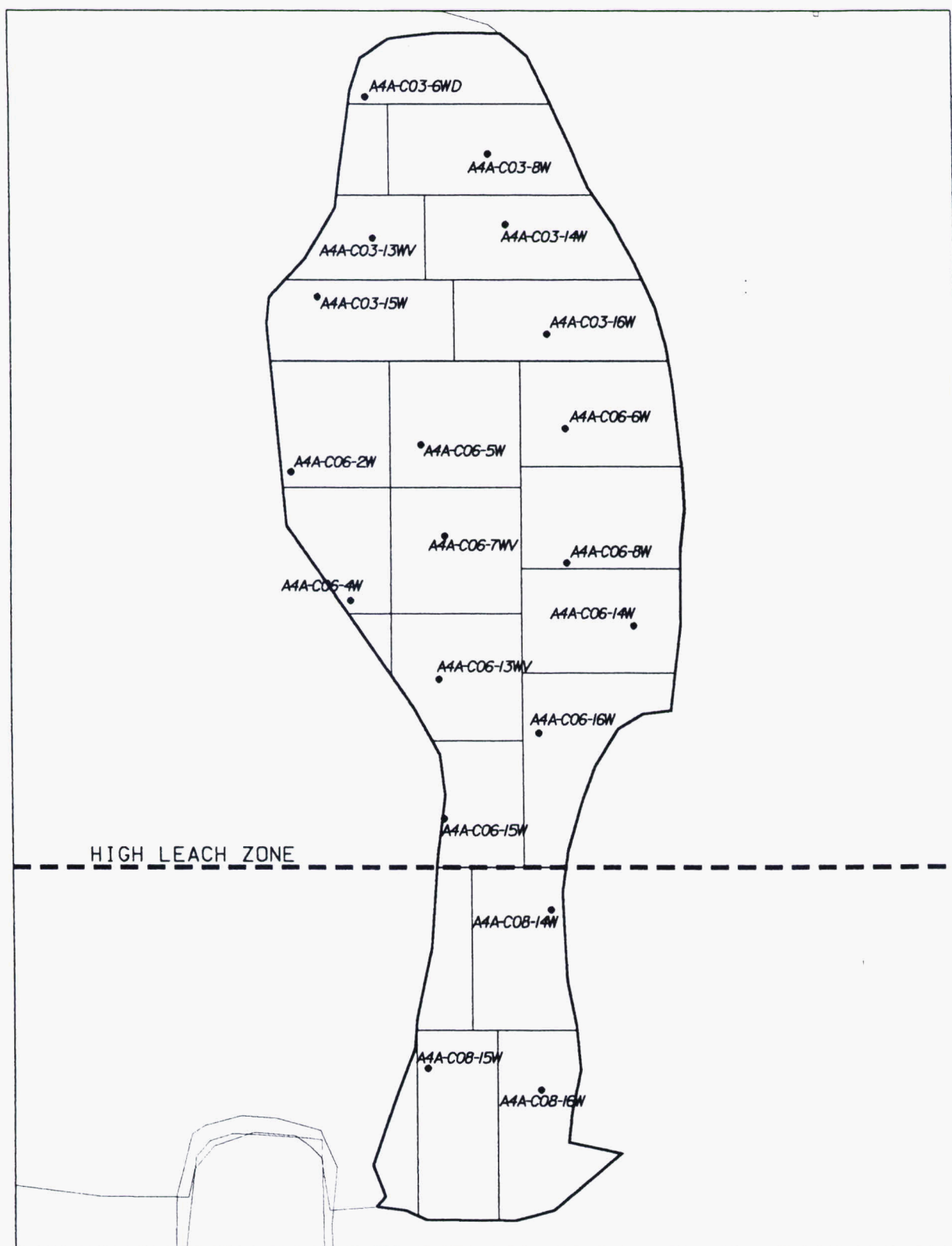


V:\2\fm12\dgn\4a_water_101.dgn
STATE PLANAR COORDINATE SYSTEM 1983

FIGURE 1. MAXIMUM EXTENT OF STORM WATER OVERFLOW IN AREA 4A

28-AUG-2006

006199



LEGEND:

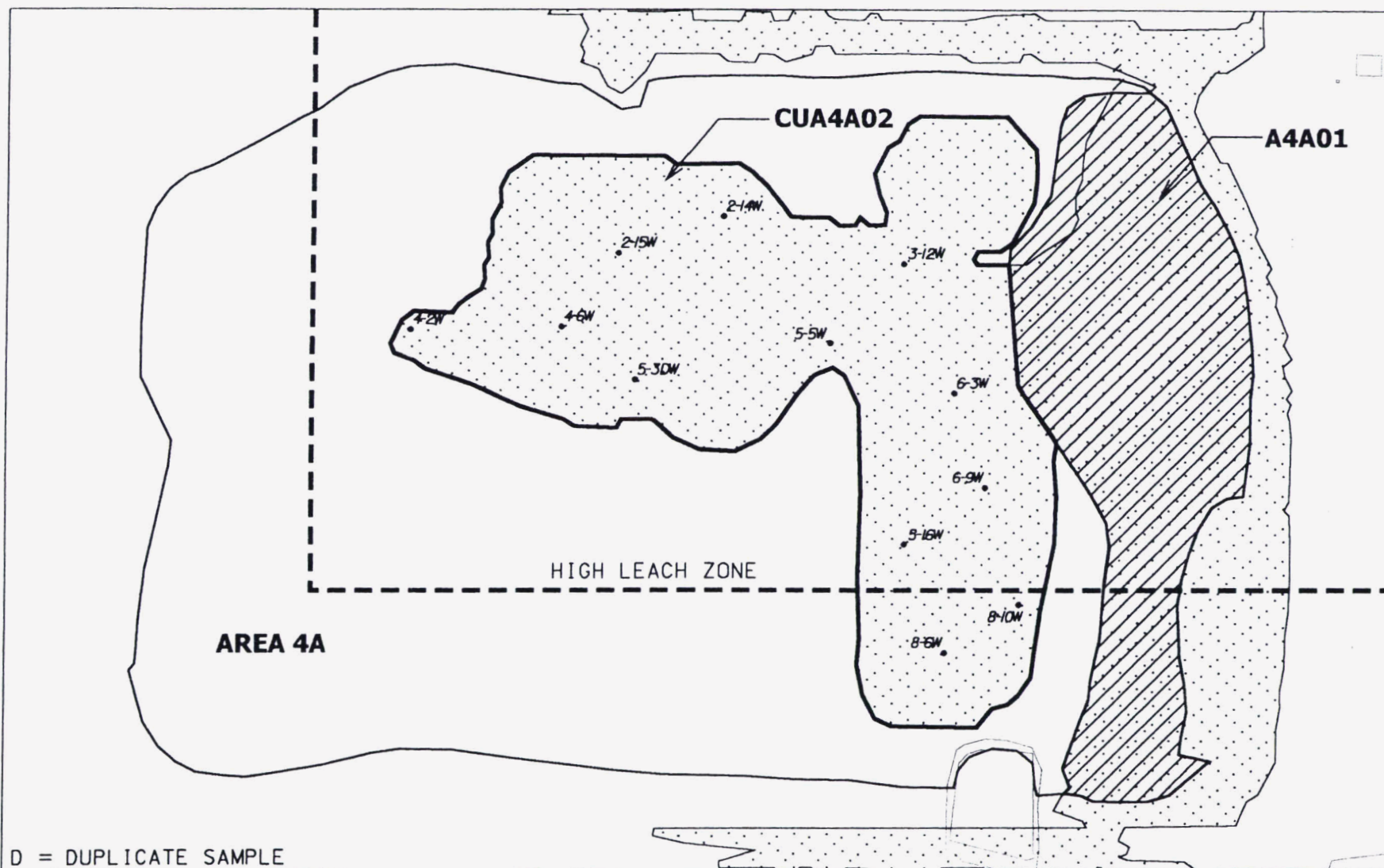
- SAMPLE LOCATION

DRAFT

SCALE

A horizontal scale bar with alternating black and white segments. Below the bar, the numbers 70, 35, 0, and 70 are marked, followed by the word FEET.

FIGURE 2. RECERTIFICATION SAMPLING LOCATIONS FOR CU A4A01



D = DUPLICATE SAMPLE

LEGEND:



PREVIOUSLY SAMPLED

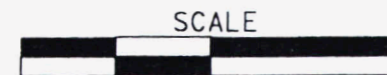


SAMPLE LOCATION



FLOODED AREA

DRAFT



120 60 0 120 FEET

**CHANGE PAGES TO THE ADDENDUM FOR THE
CERTIFICATION DESIGN LETTER FOR AREA 4A
(20803-RP-0004)**

Attachment 2
Area 4A Certification Sample Locations and Identifiers

CU	Location	Depth	Sample ID*	TAL	North-83	East-83	MSL
A4A02	2-14	0"-6"	A4A-C2-14W^R	G	480576.56	1349858.40	564.69
	2-15	0"-6"	A4A-C2-15W^R	G	480547.46	1349774.79	560.37
	3-12	0"-6"	A4A-C3-12W^R	G	480539.01	1350004.32	562.49
	4-2	0"-6"	A4A-C4-2W^R	G	480486.91	1349608.19	573.78
	4-6	0"-6"	A4A-C4-6W^R	G	480489.01	1349729.54	560.84
	5-3D	0"-6"	A4A-C5-3W^R	G	480446.35	1349789.51	565.41
			A4A-C5-3W^R-D				
	5-5	0"-6"	A4A-C5-5W^R	G	480475.78	1349944.97	570.07
	5-16	0"-6"	A4A-C5-16W^R	G	480315.67	1350005.28	562.86
	6-3	0"-6"	A4A-C6-3W^R	G	480435.59	1350044.76	564.45
	6-9	0"-6"	A4A-C6-9W^R	G	480360.51	1350069.80	561.69
	8-6	0"-6"	A4A-C8-6W^R	G	480229.86	1350038.14	565.37
	8-10	0"-6"	A4A-C8-10W^R	G	480267.64	1350097.44	563.98

* If the bottom sampling depth is > 0.5 feet (6 inches), then the bottom depth (in feet) shall be multiplied by 2, and the resulting value will be added to the end of the sample ID. For example, if the bottom depth of the sampling interval for sample A4A-C2-14W^R is 1 foot, then the sample ID shall be modified by adding a "-2" (i.e. $1 \times 2 = 2$) to the end of the sample ID (A4A-C2-14W^R-2).

Attachment 3

Table 1: Sample Collection Log -- Area 4B-Part 1 CU A4B03 Re-Certification

CU	Location	Sample ID	TAL	North-83	East-83	Previous Elevation (feet)	Water Elevation (feet)	Depth to Floor (feet)	New Floor Elevation (feet)	Sample #1 Interval Collected (inches)	Sample #2 Interval Collected (inches)
A4A02	2-14	A4A-C2-14W^R	G	480576.56	1349858.40	564.69				to	to
	2-15	A4A-C2-15W^R	G	480547.46	1349774.79	560.37				to	to
	3-12	A4A-C3-12W^R	G	480539.01	1350004.32	562.49				to	to
	4-2	A4A-C4-2W^R	G	480486.91	1349608.19	573.78				to	to
	4-6	A4A-C4-6W^R	G	480489.01	1349729.54	560.84				to	to
	5-3D	A4A-C5-3W^R	G	480446.35	1349789.51	565.41				to	to
		A4A-C5-3W^R-D								to	to
	5-5	A4A-C5-5W^R	G	480475.78	1349944.97	570.07				to	to
	5-16	A4A-C5-16W^R	G	480315.67	1350005.28	562.86				to	to
	6-3	A4A-C6-3W^R	G	480435.59	1350044.76	564.45				to	to
	6-9	A4A-C6-9W^R	G	480360.51	1350069.80	561.69				to	to
	8-6	A4A-C8-6W^R	G	480229.86	1350038.14	565.37				to	to
	8-10	A4A-C8-10W^R	G	480267.64	1350097.44	563.98				to	to